

FORM PTO-1449  
(Rev. 2-32)U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket No.

03-332-B  
(400/126)

Serial No.

10/652,791

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

Applicant:

McSwiggen et al.

Filing Date:

August 29, 2003

Group:

## U.S. PATENT APPLICATION DOCUMENTS

Examiner Initial		Document Number	Filing Date	Name	Class	Subclass	Publication Date if Appropriate
KC	*	US2002/0130430	12/29/00	Castor			09/12/02
	*	US2002/0137210		Churikov			09/26/02
	*	10/201,394	08/13/01	Vargeese et al.			
	*	60/082,404	04/20/98	Thompson et al.			
	*	60/358,580	02/20/02	Beigelman et al.			
	*	60/362,016	03/06/02	Matulic-Adamic et al.			
	*	60/363,124	03/11/02	Beigelman et al.			
	*	60/402,996	08/13/02	Usman et al.			
	*	60/406,784	08/29/02	Beigelman et al.			
	*	60/408,378	09/05/02	Beigelman et al.			
	*	60/409,293	09/09/02	Beigelman et al.			
↓	*	60/440,129	01/15/03	Beigelman et al.			

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KL	*	5,334,711	08/02/94	Sproat			
	*	5,624,803	04/29/97	Noonberg et al.			
	*	5,627,053	05/06/97	Usman et al.			
	*	5,631,360	05/20/97	Usman et al.			
	*	5,672,695	09/30/97	Eckstein et al.			
	*	5,716,824	02/10/98	Beigelman et al.			
	*	5,804,683	09/08/98	Usman et al.			
	*	5,831,071	11/03/98	Usman et al.			
	*	5,854,038	12/29/98	Cech et al.			
	*	5,889,136	03/30/99	Scaringe et al.			
	*	5,902,880	05/11/99	Thompson et al.			
	*	5,998,203	12/07/99	Adamic et al.			
	*	6,001,311	12/14/99	Brennan			
	*	6,008,400	12/28/99	Scaringe et al.			
✓	*	6,054,576	04/25/00	Bellon et al.			

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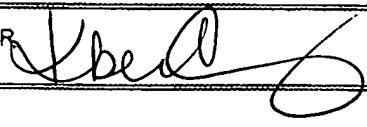
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KC	*	6,111,086	08/29/00	Scaringe et al.			
	*	6,117,657	09/12/00	Usman et al.			
	*	6,146,886	11/14/00	Thompson et al.			
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	*	6,248,878	06/19/01	Adamic et al.			
	*	6,300,074	10/09/01	Gold			
	*	6,303,773	10/16/01	Bellon et al.			
	*	6,353,098	03/05/02	Usman et al.			
	*	6,362,323	03/26/01	Usman et al.			
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	*	6,437,117	08/20/02	Usman et al.			
	*	6,447,796	09/10/02	Vook et al.			
✓	*	6,469,158	10/22/02	Usman et al.			
✓	*	6,506,559	06/14/03	Fire et al.			

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K	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
X	1. 2,359,180	08/03/00	CA (Kreutzer et al.)				
	2. 1144623 B1	01/29/02	EP (Kreutzer et al.)				
	3. 89/02439	03/23/89	WO (Arnold et al.)				
	4. 91/03162	03/21/91	WO (Rossi et al.)				
	5. 92/07065	04/30/92	WO (Eckstein et al.)				
	6. 93/15187	08/05/93	WO (Usman et al.)				
	7. 93/23569	11/25/93	WO (Draper et al.)				
	8. 94/02595	02/03/94	WO (Sullivan et al.)				
	9. 95/06731	03/09/95	WO (Usman et al.)				
	10. 95/11910	05/04/95	WO (Dudycz et al.)				
	11. 96/10390	04/11/96	WO (Ansell et al.)				
	12. 96/10391	04/11/96	WO (Choi et al.)				
	13. 96/10392	04/11/96	WO (Holland et al.)				
V	14. 97/26270	07/24/97	WO (Beigelman et al.)				

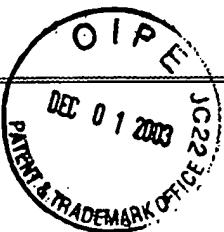
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KC	15.	98/13526	04/02/98	WO (Woolf et al.)				
	16.	99/07409	02/18/99	WO (Deschamps de Paillette et al.)				
	17.	99/14226	03/25/99	WO (Wengel et al.)				
	18.	99/31262	06/24/99	WO (Barry et al.)				
	19.	99/32619	07/01/99	WO (Fire et al.)				
	20.	99/49029	09/30/99	WO (Graham et al.)				
	21.	99/53050	10/21/99	WO (Waterhouse et al.)				
	22.	99/54459	10/28/99	WO (Thompson et al.)				
	23.	00/01846	01/13/00	WO (Plaelinck et al.)				
	24.	00/44895	08/03/00	WO (Kreutzer et al.)				
	25.	00/44914	08/03/00	WO (Li et al.)				
	26.	00/53722	09/14/00	WO (O'Hare and Normand)				
	27.	00/63364	10/26/00	WO (Pachuk et al.)				
	28.	00/66604	11/09/00	WO (Wengel et al.)				
	29.	01/04313	01/18/01	WO (Satishchandran et al.)				
	30.	01/29058	04/26/01	WO (Mello et al.)				
✓	31.	01/36646	05/25/01	WO (Zernicka-Goetz et al.)				

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KC	32.	01/38551	05/31/01	WO (Grossniklaus)				
	33.	01/42443	06/14/01	WO (Churikov et al.)				
	34.	01/49844	07/12/01	WO (Driscoll et al.)				
	35.	01/53475	07/26/01	WO (Cogoni et al.)				
	36.	01/68836	09/20/01	WO (Beach et al.)				
	37.	01/70944	09/27/01	WO (Honer et al.)				
	38.	01/70949	09/27/01	WO (Graham et al.)				
	39.	01/72774	10/04/01	WO (Deak et al.)				
	40.	01/75164	10/11/01	WO (Tuschl et al.)				
	41.	01/92513	05/29/01	WO (Arndt et al.)				
	42.	02/38805	05/16/02	WO (Echeverri et al.)				
	43.	02/44321	06/06/02	WO (Tuschl et al.)				
	44.	02/55692	07/18/02	WO (Kreutzer et al.)				
	45.	02/55693	07/18/02	WO (Kreutzer et al.)				
	46.	03/05028	02/20/03	WO (McSwiggen et al.)				
	47.	03/05346	02/20/03	WO (McSwiggen et al.)				

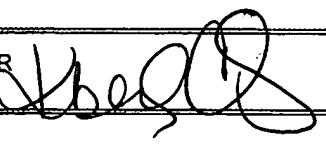
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**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

KC	48.	Akhtar and Juliano, "Cellular Uptake and Intracellular Fate of AntiSense-Oligonucleotides," <i>Trends Cell Biol.</i> 2:139-144 (1992)
	49.	Aldrian-Herrada et al., "A peptide nucleic acid (PNA) is more rapidly internalized in cultured neurons when coupled to a <i>retro-inverso</i> delivery peptide. The antisense activity depresses the target mRNA and protein in magnocellular oxytocin neurons," <i>Nucleic Acids Research</i> 26:4910-4916 (1998)
	50.	Allshire, "RNAi and Heterochromatin - A Hushed-up Affair," <i>Science</i> 297:1818-1819 (2002)
	51.	Andrews and Faller, "A rapid micropreparation technique for extraction of DNA-binding proteins from limiting numbers of mammalian cells," <i>Nucleic Acids Research</i> 19:2499 (1991)
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	53.	Bass, "The short answer," <i>Nature</i> 411:428-429 (2001)
	54.	Beaucage and Iyer, "The Functionalization of Oligonucleotides Via Phosphoramidite Derivatives," <i>Tetrahedron</i> 49:1925-1963 (1993)
	55.	Beigelman et al., "Chemical Modification of Hammerhead Ribozymes," <i>The Journal of Biological Chemistry</i> 270:25702-25708 (1995)
	56.	Bellon et al., "Amino-Linked Ribozymes: Post-Synthetic Conjugation of Half-Ribozymes," <i>Nucleosides &amp; Nucleotides</i> 16:951-954 (1997)
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KC	58.	Berkman et al., "Expression of the Vascular Permeability Factor/Vascular Endothelial Growth Factor Gene in Central Nervous System Neoplasms," <i>The Journal of Clinical Investigation</i> , Inc. 91:153-159 (1993)
	59.	Bernstein et al., "Role for a Bidentate Ribonuclease in the Initiation Step of RNA Interference," <i>Nature</i> 409:363-366 (2001)
	60.	Boado et al., "Drug Delivery of Antisense Molecules to the Brain for Treatment of Alzheimer's Disease and Cerebral AIDS," <i>Journal of Pharmaceutical Sciences</i> 87:1308-1315 (1998)
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	64.	Burger et al., "Experimental Corneal Neovascularization: Biomicroscopic, Angiographic, and Morphologic Correlation," <i>Cornea</i> 4:35-41 (1985/1986)
	65.	Burgin et al., "Chemically Modified Hammerhead Ribozymes with Improved Catalytic Rates," <i>Biochemistry</i> 35:14090-14097 (1996) (volume no. mistakenly listed as 6)
	66.	Burlina et al., "Chemical Engineering of RNase Resistant and Catalytically Active Hammerhead Ribozymes," <i>Bioorganic &amp; Medicinal Chemistry</i> 5:1999-2010 (1997)
✓	67.	Caruthers et al., "Chemical Synthesis of Deoxyoligonucleotides and Deoxyoligonucleotide Analogs," <i>Methods in Enzymology</i> 211:3-19 (1992)

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KC	68.	Chen et al., "Multitarget-Ribozyme Directed to Cleave at up to Nine Highly Conserved HIV-1 env RNA Regions Inhibits HIV-1 Replication-Potential Effectiveness Against Most Presently Sequenced HIV-1 Isolates," <i>Nucleic Acids Research</i> 20:4581-4589 (1992)
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✓	78.	Elbashir et al., "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells," <i>Nature</i> 411:494-498 (2001)
	79.	Elbashir et al., "Functional Anatomy of siRNAs for Mediating Efficient RNAi in <i>Drosophila Melanogaster</i> Embryo Lysate," <i>The EMBO Journal</i> 20:6877-6888 (2001)
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101.	Hutvagner and Zamore, "A MicroRNA in a Multiple-Turnover RNAi Enzyme Complex," <i>Science</i> 297:2056-2060 (2002)
102.	Hutvagner et al., "A Cellular Function for the RNA-Interference Enzyme Dicer in the Maturation of the <i>let-7</i> Small Temporal RNA," <i>Science</i> 293:834-838 (2001)
103.	Ishiwata et al., "Physical-Chemistry Characteristics and Biodistribution of Poly(ethylene glycol)-Coated Liposomes Using Poly(oxyethylene) Cholesteryl Ether," <i>Chem. Pharm. Bull.</i> 43:1005-1011 (1995) (mistakenly referred to as Ishiwata et al.)
104.	Izant and Weintraub, "Constitutive and Conditional Suppression of Exogenous and Endogeneous Genes by Anti-Sense RNA," <i>Science</i> 229:345-352 (1985)
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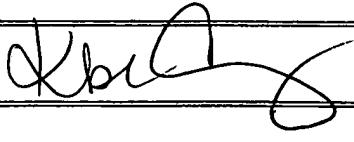
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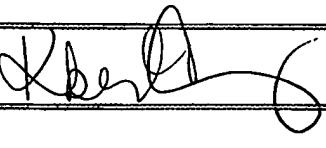
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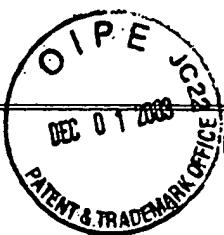
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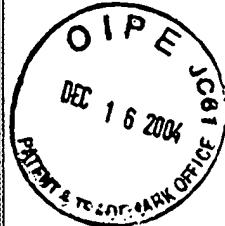
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<b>2<sup>ND</sup> SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use several sheets if necessary)			
<b>Applicant:</b> McSwiggen et al.			
		Filing Date: August 29, 2003	Group: 1635

KC	5.	Leirdal M. et al., "Gene silencing in mammalian cells by preformed small RNA duplexes", Biochemical and Biophysical Research Communications, V.295: 744-748 (2002)
	*	Elbashir et al., "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells", Nature, V. 411, 6836: 494-498 (2001)
V	6.	Bohula Erin et al., "The Efficacy of small interfering RNAs targeted to the type 1 insulin-like growth factor receptor (IGF1R) is influenced by secondary structure in the IGF1R transcript", Journal of Biological Chemistry, V. 278, 18:15991-15997 (2003)

EXAMINER	<i>Kerry L</i>	DATE CONSIDERED	12/1/05
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